IN THE CLAIMS

Please amend the claims as follows.

- 1. (Original) A method for providing a self heating adjustable titanium disilicon (TiSi₂) resistor, said method comprising the steps of:
- placing a triangularly shaped layer of polysilicon on a layer of insulation material; applying a layer of titanium over said triangularly shaped layer of polysilicon; and heating said layer of titanium to form a triangularly shaped layer of C49 type titanium disilicon (TiSi₂) in said triangularly shaped layer of polysilicon.
 - 2. (Original) The method as set forth in Claim 1 further comprising the steps of: coupling a small end of said triangularly shaped layer of polysilicon to an input contact; coupling a large end of said triangularly shaped layer of polysilicon to an output contact; coupling an input metal connector to said input contact; and coupling an output metal connector to said output contact.
- 3. (Original) The method as set forth in Claim 1 wherein a thickness of said layer of titanium is approximately five hundred Ångstroms (500 Å).

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4. (Original) The method as set forth in Claim 1 wherein said step of heating said layer of titanium to form a layer of C49 type titanium disilicon (TiSi₂) in said triangularly shaped layer of polysilicon comprises the step of:

heating said layer of titanium to a temperature of approximately six hundred twenty degrees Centigrade.

5. (Original) The method as set forth in Claim 1 further comprising the step of: removing unconverted titanium from said layer of C49 type TiSi₂ in said triangularly shaped layer of polysilicon. 6. (Currently Amended)

A method for providing a self heating adjustable

titanium disilicon (TiSi₂) resistor, said method comprising the steps of: The method as set forth in

Claim 1 further comprising the steps of:

placing a triangularly shaped layer of polysilicon on a layer of insulation material;

applying a layer of titanium over said triangularly shaped layer of polysilicon;

heating said layer of titanium to form a triangularly shaped layer of C49 type TiSi₂ in said

triangularly shaped layer of polysilicon;

applying a current to said triangularly shaped layer of C49 type TiSi₂ in said triangularly shaped layer of polysilicon; and

converting a portion of said triangularly shaped layer of C49 type TiSi₂ to C54 type TiSi₂ to lower a resistance of said triangularly shaped layer of C49 type TiSi₂.

7. (Original) The method as set forth in Claim 6 wherein said step of converting a portion of said triangularly shaped layer of C49 type TiSi₂ to C54 type TiSi₂ comprises the steps of:

generating heat from said current in a high resistance portion of said triangularly shaped layer of C49 type TiSi₂; and

increasing a temperature of said high resistance portion of said triangularly shaped layer of C49 type TiSi₂ to a temperature that is at least approximately seven hundred degrees Centigrade.

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- 8. (Original) The method as set forth in Claim 7 wherein said conversion of C49 type TiSi₂ to C54 type TiSi₂ in said high resistance portion decreases a resistance of said high resistance portion to a level of resistance where no more C49 type TiSi₂ is converted for said value of current.
- 9. (Original) The method as set forth in Claim 7 further comprising the step of: selecting a desired value of resistance for said triangularly shaped layer of C49 type TiSi₂ by selecting a magnitude of said current.
- 10. (Original) The method as set forth in Claim 7 further comprising the step of:

 decreasing a resistance of said triangularly shaped layer of C49 type TiSi₂ by increasing a
 magnitude of said current.

Claims 11-20 (Cancelled).

- 21. (New) A method, comprising:

 forming a triangularly shaped resistor layer comprising C49 type titanium disilicon (TiSi₂);

 and
 - 22. (New) The method of Claim 21, further comprising: coupling a smaller end of the resistor layer to a first contact; and coupling a larger end of the resistor layer to a second contact.

heating the resistor layer to alter a resistance of the resistor layer.

- 23. (New) The method of Claim 22, further comprising: coupling a first metal connector to the first contact; and coupling a second metal connector to the second contact.
- 24. (New) The method of Claim 21, wherein forming the resistor layer comprises: depositing titanium on a triangularly shaped polysilicon layer; and heating the titanium to form the C49 type TiSi₂.
- 25. (New) The method of Claim 24, wherein heating the titanium comprises:

 heating the titanium to a temperature of approximately six hundred twenty degrees

 Centigrade.

- 26. (New) The method of Claim 24, wherein the titanium has a thickness of approximately five hundred Ångstroms (500 Å).
- 27. (New) The method of Claim 21, wherein heating the resistor layer comprises applying a current to the resistor layer to convert a portion of the C49 type TiSi₂ to C54 type TiSi₂.
- 28. (New) The method of Claim 27, wherein converting the portion of the C49 type TiSi₂ to C54 type TiSi₂ comprises:

increasing a temperature of a high resistance portion of the C49 type TiSi₂ to a temperature that is at least approximately seven hundred degrees Centigrade.

- 29. (New) The method of Claim 27, further comprising: selecting a magnitude of the current to provide a desired resistance for the resistor layer.
- 30. (New) The method of Claim 27, further comprising:

 decreasing the resistance of the resistor layer by increasing a magnitude of the current.